

-----Please read this manual carefully before installing and using the product-----

1. Overview

The AW-D121C Power Supply is used with AW-CFP2166 series conventional fire alarm control panel. It is mainly used to increase the load capacity of the panel. And it can reset the output of 24VDC by 3 inputs (voltage free input, voltage input and RS485).

2. Product characteristics

- 2.1 Surface mounting
- 2.2 Working status indicators
- 2.3 24VDC output short circuit protection function
- 2.4 Selectable input modes to reset 24VDC out
- 2.5 Compatible with the latest EN54-4 standard

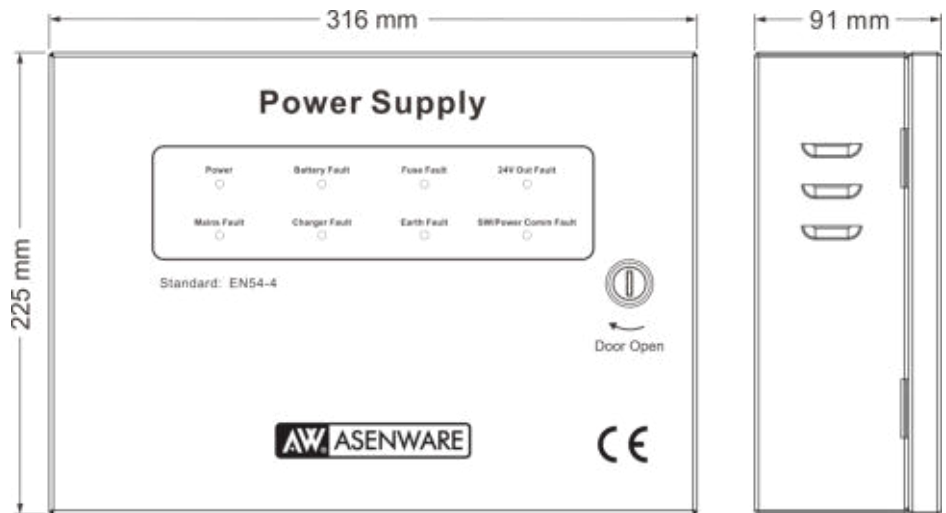


Figure 1. Dimensions

3. Technical parameters

- 3.1 Mains input voltage: 85V~264VAC
- 3.2 Standby power supply with Lead-acid battery: 12V/2.3Ah * 2
- 3.3 Operating temperature: -10℃ ~ 50℃, Relative humidity: ≤95%(non-condensing)
- 3.4 Resettable output 24VDC: 20V~28VDC with 3A limiting protection
- 3.5 Capacity of the fault output relay contact: 1A@30VDC
- 3.6 Voltage input reset port: 18VDC ~ 30VDC
- 3.7 Protection class: IP30
- 3.8 Application: For indoor use only
- 3.9 Materials and colors: SPCC, Red
- 3.10 Size: 316mm*225mm*91mm

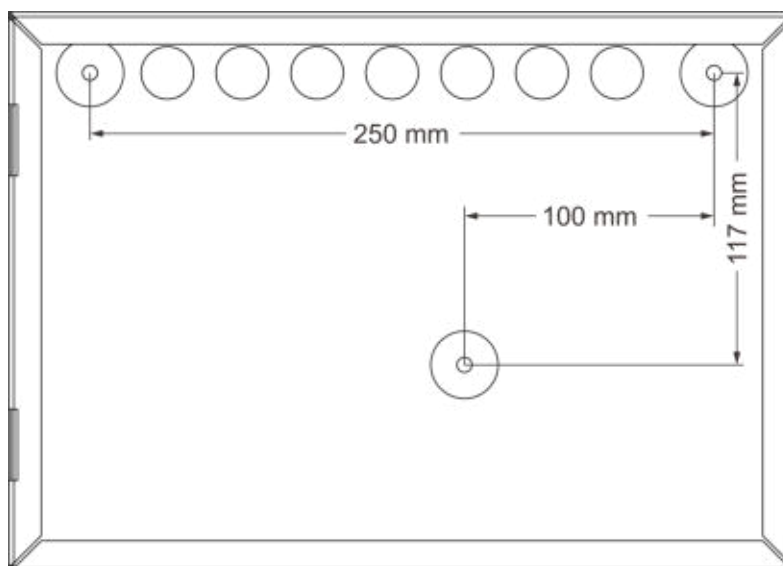


Figure 2. Mounting

4. Mounting

AW-D121C power supply should comply with all local codes.

The dimensions of 137mm*105mm*41mm(Length*Width*Height), shown in Figure 1. Shown in Figure 2, Fix the shell to the wall with screws. The mounting holes diameter $\phi 4.5\text{mm}$, fixing the holes spacing is 57mm.

5. Operation

Reset mode selection: There are 3 inputs can be selected for reset the output 24VDC. Different modes can be selected through the pin header. The mode selection is shown in the following table and figure 3.

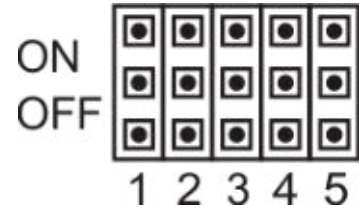


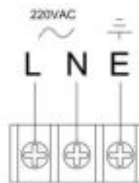
Figure 3. Mode

Reset Mode Slection			24V In Control Slection	
	1	2		3
3 Mode All	OFF	OFF	Voltage In For Reset	OFF
RS485	ON	OFF	No Voltage In For Reset	ON
24V In Control	OFF	ON		
SW In Control	ON	ON		

SW In Control Slection		SW In Line Monitoring	
	4		5
SW In --> NO	OFF	Monitoring Line Fault	OFF
SW In --> NC	ON	Do not Monitoring Line Fault	ON

Terminals and wiring:

Use the 3 terminal to connect the AC power cable to the panel. Ensure that the power cable is safe to handle (has no power). Pay attention to the order of L/N/E, pull them in the 3 pin terminal (5mm space between) and screw down. The diameter of the wires must be between 0.75 and 2.5 mm².



(Ensure that there is no power when connect this terminal!)

Figure 4. Mains connection

The SW in terminal is connected to the volt free input to reset the 24V out, According to different modes, the connection modes of the SW in control Input port as shown in Figure 5(if do not need to monitoring line fault, can remove the 6.8k resistor).

Monitoring Line Fault

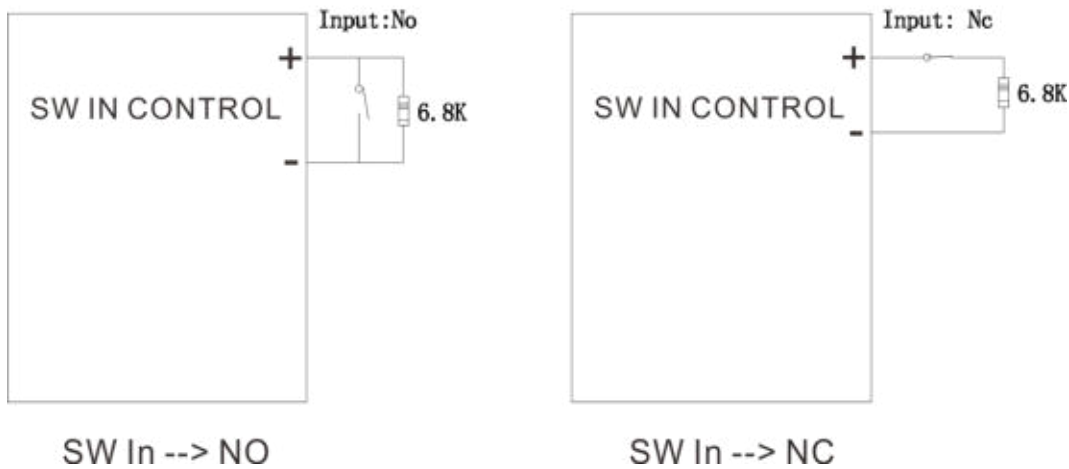


Figure 5. SW In Control

Indicator light: The position and sequence of the indicator light are shown in Figure 1. The indicator lights are as follows:

Power: After the power is turned on, the green Power indicator will always be on..

Mains Fault: When the mains in is fault, the LED will always be on.

Battery Fault: When the battery is fault, the LED will always be on.

Charger Fault: When the Charger is fault, the LED will always be on.

Fuse Fault: When the fuse of the 24V out is fault, the LED will always be on.

Earth Fault: When the system has earth fault, the LED will always be on.

24V out Fault: When the 24V out is fault, the LED will always be on.

SW/Power comm Fault: When the communication of the power board is fault, the LED will be flash, when the SW line is fault, the LED will always be on.